

1999B062A

Adv. Action dated 8/04/2006

RCE Response dated 8/29/06

PATENT

IN THE CLAIMS:

Please amend the claims as follows:

1. (Previously presented) An inner tube comprising a blend comprising:
at least 15 parts per hundred rubber halogenated isobutylene-co-alkylstyrene polymer; and
a second rubber component, wherein the halogen is present from 0.1 to 3.0 mol% relative to the total amount of the polymer.
2. (Original) The inner tube of Claim 1, wherein the halogenated isobutylene-co-alkylstyrene is brominated isobutylene-co-methylstyrene polymer.
3. (Original) The inner tube of Claim 1, wherein the halogenated isobutylene-co-alkylstyrene is brominated isobutylene-co-*paramethylstyrene* polymer.
4. (Cancelled)
5. (Original) The inner tube of Claim 1, comprising at least 25 parts per hundred rubber halogenated isobutylene-co-alkylstyrene polymer.
6. (Original) The inner tube of Claim 1, comprising at least 40 parts per hundred rubber halogenated isobutylene-co-alkylstyrene polymer.
7. (Cancelled)
8. (Original) The inner tube of Claim 1, further comprising a cure package.
9. (Original) The inner tube of Claim 8, further comprising a vulcanizing agent, a retarder, a filler, or blends thereof.

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10. (Currently amended) The inner tube of Claim 1, wherein the second rubber component is selected from the group consisting of natural rubber, polyisoprene rubber, poly(styrene-co-butadiene) rubber (SBR), polybutadiene rubber (BR), ~~butyl rubber, poly(isoprene-co-butadiene) rubber (IBR), styrene-isoprene-butadiene rubber (SIBR), polysulfide, nitrile rubber, propylene oxide polymers, and semi-crystalline copolymer (SCC), halogenated star-branched butyl rubber, brominated butyl rubber, chlorinated butyl rubber, star-branched butyl (polyisobutylene/isoprene copolymer) rubber, star-branched halogenated (brominated or chlorinated) butyl (polyisobutylene/isoprene copolymer) rubber, poly(isobutylene-co-methylstyrene), and halogenated poly(isobutylene-co-methylstyrene).~~
11. (Previously presented) The inner tube of Claim 1, wherein the halogen is bromine.
12. (Previously presented) The inner tube of Claim 1, wherein the halogen is chlorine.
13. (Previously presented) An inner tube comprising a blend comprising:
at least 15 parts per hundred rubber halogenated isobutylene-co-methylstyrene polymer; and
a second rubber component, wherein the halogen is present from 0.1 to 3.0 mol% relative to the total amount of the polymer.
14. (Currently amended) The inner tube of Claim 13, where the second rubber component is selected from the group consisting of natural rubber, polyisoprene rubber, poly(styrene-co-butadiene) rubber (SBR), polybutadiene rubber (BR), ~~butyl rubber, poly(isoprene-co-butadiene) rubber (IBR), styrene-isoprene-butadiene rubber (SIBR), polysulfide, nitrile rubber, propylene oxide polymers, and semi-crystalline copolymer (SCC), halogenated star-branched butyl rubber, brominated butyl rubber, chlorinated butyl rubber, star-branched butyl (polyisobutylene/isoprene copolymer) rubber, star-branched halogenated (brominated or chlorinated) butyl (polyisobutylene/isoprene copolymer) rubber, poly(isobutylene-co-methylstyrene), and halogenated poly(isobutylene-co-methylstyrene).~~

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26. (Original) The inner tube of Claim 25, wherein the halogen is bromine.
27. (Original) The inner tube of Claim 25, wherein the halogen is chlorine.
28. (Previously presented) A tire assembly comprising:
 - a) a tire; and
 - b) an inner tube comprising a blend comprising at least 15 parts per hundred rubber halogenated isobutylene-co-alkylstyrene polymer; and
a second rubber component, wherein the halogen is present from 0.1 to 3.0 mol% relative to the total amount of the polymer.
29. (Original) The tire assembly of Claim 28, wherein the halogenated isobutylene-co-alkylstyrene polymer is brominated isobutylene-co-methylstyrene polymer.
30. (Original) The tire assembly of Claim 28, wherein the halogenated isobutylene-co-alkylstyrene polymer is brominated isobutylene-co-*paramethylstyrene* polymer.
31. (Original) The tire assembly of Claim 28, wherein the blend further comprises ethylene-propylene-diene rubber (EPDM).
32. (Currently amended) The tire assembly of Claim 28, wherein the second rubber component is selected from the group consisting of natural rubber, polyisoprene rubber, poly(styrene-co-butadiene) rubber (SBR), polybutadiene rubber (BR), butyl rubber, poly(isoprene-co-butadiene) rubber (IBR), styrene-isoprene-butadiene rubber (SIBR), polysulfide, nitrile rubber, propylene oxide polymers, and semi-crystalline copolymer (SCC), ~~halogenated star-branched butyl rubber, brominated butyl rubber, chlorinated butyl rubber, star-branched butyl (polyisobutylene/isoprene copolymer) rubber, star-branched halogenated (brominated or chlorinated) butyl (polyisobutylene/isoprene copolymer) rubber, poly(isobutylene-co-methylstyrene), and halogenated poly(isobutylene-co-methylstyrene).~~

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33. (Previously presented) The tire assembly of Claim 28, wherein the second rubber component comprises isobutylene-based rubber.
34. (Previously presented) The tire assembly of Claim 33, wherein the isobutylene-based rubber comprises a copolymer of isobutylene/isoprene.
35. (Previously presented) The tire assembly of Claim 28, wherein the halogen is present from 0.2 to 2.0 mol% relative to the total amount of polymer.
36. (Original) The tire assembly of Claim 35, wherein the halogen is bromine.
37. (Original) The tire assembly of Claim 35, wherein the halogen is chlorine.
38. (New) The inner tube of Claim 1, wherein the second rubber component is selected from the group consisting of halogenated star-branched butyl rubber, brominated butyl rubber, chlorinated butyl rubber, star-branched butyl (polyisobutylene/isoprene copolymer) rubber, star-branched halogenated (brominated or chlorinated) butyl (polyisobutylene/isoprene copolymer) rubber, poly(isobutylene-co-methylstyrene), and halogenated poly(isobutylene-co-methylstyrene).
39. (New) The inner tube of Claim 13, wherein the second rubber component is selected from the group consisting of halogenated star-branched butyl rubber, brominated butyl rubber, chlorinated butyl rubber, star-branched butyl (polyisobutylene/isoprene copolymer) rubber, star-branched halogenated (brominated or chlorinated) butyl (polyisobutylene/isoprene copolymer) rubber, poly(isobutylene-co-methylstyrene), and halogenated poly(isobutylene-co-methylstyrene).
40. (New) The tire assembly of Claim 28, wherein the second rubber component is selected from the group consisting of halogenated star-branched butyl rubber, brominated butyl rubber, chlorinated butyl rubber, star-branched butyl (polyisobutylene/isoprene copolymer) rubber, star-branched halogenated (brominated

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or chlorinated) butyl (polyisobutylene/isoprene copolymer) rubber, poly(isobutylene-co-methylstyrene), and halogenated poly(isobutylene-co-methylstyrene).

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